

1. (Ref. Chapter 10) 다음과 같이 Pseudo-Noise (PN) sequence와 random binary sequence의 autocorrelation이 주어졌다고 할 때, PN sequence의 power spectral density (PSD) 를 수학적으로 유도하고 이를 random binary sequence의 PSD와 비교해 스케치하시오.

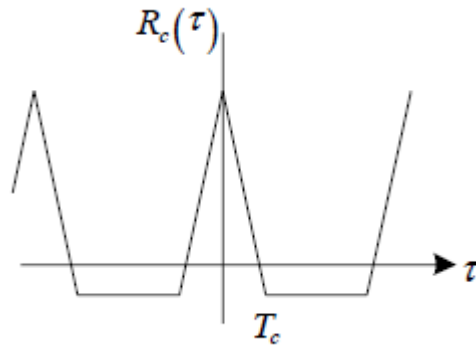


Fig. 1. Autocorrelation of PN sequence

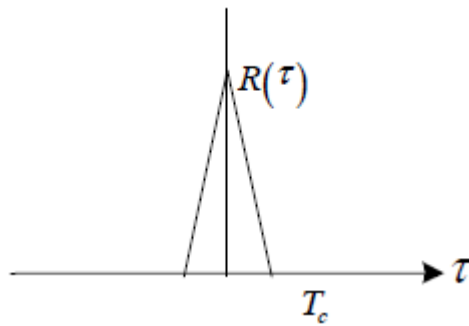


Fig. 2. Autocorrelation of random binary sequence